

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1516	703/2.ccor.	US-PGPUB; USPAT	OR	ON	2008/01/04 08:50
L2	207	716/9.ccor.	US-PGPUB; USPAT	OR	ON	2008/01/04 08:50
L3	15294	finite adj element	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2008/01/04 08:50
L4	372	hourglass same deform\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2008/01/04 08:50
L5	9	L3 and L4	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2008/01/04 08:50
L6	64	L3 and hourglass	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2008/01/04 08:50
L7	12	L6 and node	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2008/01/04 08:50
L8	11	("6044210").URPN.	USPAT	OR	ON	2008/01/04 08:50
L9	585	345/420.cor.	US-PGPUB; USPAT	OR	ON	2008/01/04 08:50
L10	10	("5390127"   "6044210"   "6069634"   "6205366"   "6212486"   "6263252"   "6369815"   "6560570"   "6704693"   "6778916").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/04 08:50

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### Search

### Results

(((((pub-date > 1949 and pub-date < 2005 and FULL-TEXT("finite element") and FULL-TEXT(hourglass)) and deform\*) and coordinate) and solid) and vector) and node) and local) and direction) and force) and (hexahedral or pentahedral or axisymmetric or "plane strain")) and corner

32

[All Sources(- All Sciences -)]

(((((pub-date > 1949 and pub-date < 2005 and FULL-TEXT("finite element") and FULL-TEXT(hourglass)) and deform\*) and coordinate) and solid) and vector) and node) and local) and direction) and force) and (hexahedral or pentahedral or axisymmetric or "plane strain"))

73

[All Sources(- All Sciences -)]

(((((pub-date > 1949 and pub-date < 2005 and FULL-TEXT("finite element") and FULL-TEXT(hourglass)) and deform\*) and coordinate) and solid) and vector) and node) and local) and direction) and force

112

[All Sources(- All Sciences -)]

(((((pub-date > 1949 and pub-date < 2005 and FULL-TEXT("finite element") and FULL-TEXT(hourglass)) and deform\*) and coordinate) and solid) and vector) and node) and local) and direction

115

[All Sources(- All Sciences -)]

(((((pub-date > 1949 and pub-date < 2005 and FULL-TEXT("finite element") and FULL-TEXT(hourglass)) and deform\*) and coordinate) and solid) and vector) and node) and local

130

[All Sources(- All Sciences -)]

(((((pub-date > 1949 and pub-date < 2005 and FULL-TEXT("finite element") and FULL-TEXT(hourglass)) and deform\*) and coordinate) and solid) and vector) and node

180

[All Sources(- All Sciences -)]

((((pub-date > 1949 and pub-date < 2005 and FULL-TEXT("finite element") and FULL-TEXT(hourglass)) and deform\*) and coordinate) and solid) and vector

204

[All Sources(- All Sciences -)]

((pub-date > 1949 and pub-date < 2005 and FULL-TEXT("finite element") and FULL-TEXT(hourglass)) and deform\*) and coordinate) and solid

258

[All Sources(- All Sciences -)]

((pub-date > 1949 and pub-date < 2005 and FULL-TEXT("finite element") and FULL-TEXT(hourglass)) and deform\*) and coordinate)

323

[All Sources(- All Sciences -)]

(pub-date > 1949 and pub-date < 2005 and FULL-TEXT("finite element") and FULL-TEXT(hourglass)) and deform\*

521

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pub-date > 1949 and pub-date < 2005 and FULL-TEXT("finite element") and FULL-TEXT(hourglass)

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[Transient Solid Dynamics Simulations on the Sandia/Intel..](#) - Stephen Attaway (1997) (Correct) (5 citations)  
 to date) on problems involving millions of **finite elements**. On this machine we can simulate models shell elements. Either the Flanagan-Belytschko **hourglass** control scheme or an assumed-strain **hourglass** **hourglass** control scheme or an assumed-strain **hourglass** control scheme can be used to control element  
[ftp.cs.sandia.gov/pub/papers/bahendr/pronto.ps.gz](ftp://cs.sandia.gov/pub/papers/bahendr/pronto.ps.gz)

[Comparative Study of Unstructured Meshes Made of Triangles..](#) - Anish Malanthara (1997) (Correct) (2 citations)  
 meshes of triangles for the purpose of **finite element** analysis. Delaunay triangulation has been the under-integrating the elements and may result in **hourglass** modes [Cook et al 74]For 3-noded triangular Gauss integration, it has been shown to exhibit **hourglass** instability. Plots of the deformed mesh confirm  
<fea1.ansys.com/pub/sowen/imr6/malanthara97.ps.gz>

[ALE Shock Calculations Using a Stabilized Serendipity Rezoning..](#) - Budge (1991) (Correct) (1 citation)  
 as if it was incompressible. Fully-integrated **finite elements**, in which the deformation field is resulting from certain deformation modes (the **hourglass** modes) with the result that these modes are of the deformation field so that the **hourglass** modes are no longer coupled to the deformation.  
<sherpa.sandia.gov/9231home/pdfpapers/APS9106.pdf>

[Unknown - Conclusions The Problem](#) (Correct)

results of numerical simulations, using the **Finite Element** Method (FEM)We have identified that the using DYNA3D and the Blatz-Ko rubber model show a **hourglass** phenomenon. We have eliminated the **hourglass** a **hourglass** phenomenon. We have eliminated the **hourglass** modes by refining 141 the mesh, but when a  
<scholar.lib.vt.edu/theses/available/etd-02232001-114006/unrestricted/chapter6.pdf>

[Wilkinson T. and Hancock G. J., \(1999\), "Predictions of.. - Advances In Steel](#) (Correct)

of Rotation Capacity of RHS Beams Using **Finite Element** Analysis"Advances in Steel Structures, general purpose shell, reduced integration with **hourglass** control, using five degrees of freedom per  
[www.civil.usyd.edu.au/people/wilko/papers/ICASS99\\_Abaqus\\_Paper.pdf](http://www.civil.usyd.edu.au/people/wilko/papers/ICASS99_Abaqus_Paper.pdf)

[RAHYD: An ICF Target Simulation Code Written in C++ \(U\) - Budge, Peery, M.K.Wong..](#) (Correct)  
 for ICF simulations. The RAHYD code uses a **finite element**, arbitrary Lagrangian-Eulerian (ALE) with a variety of artificial viscosity and anti-**hourgassing** formulations to control mesh keystoning. are currently three artificial viscosity and four **hourglass** control options available to users. None of the  
<sherpa.sandia.gov/9231home/pdfpapers/NECDC94.pdf>

[RHALE: A MMALE Shock Physics Code for Arbitrary Meshes - Peery, Budge](#) (Correct)

step. The Lagrangian step is solved using **finite elements** on an unstructured grid. RHALE incorporates quadrilateral, spurious zero-energy modes (**hourglass** modes) exist and must be damped. We provide Margolin and J.J. Pyun, A Method for Treating **Hourglass** Patterns,in Proceedings of the Fifth  
<sherpa.sandia.gov/9231home/pdfpapers/imacs92.pdf>

[Stress-Strain Response Of Polymers For Predicting The.. - Keith Knapp li](#) (Correct)

large impact on the predictive capabilities of **finite element** models. Such improvements are necessary for local true strain and local true stress using **hourglass** shaped test samples. True constant strain local true strain and local true stress using **hourglass** shaped test samples. In this paper the results  
<windward.mech.e.rpi.edu/IFPintro/Papers/Keith2/ANTEC325.pdf>

[A Domain-Decomposition Message-Passing Approach to Transient.. - Christon \(1997\)](#) (Correct)

on massively parallel computers. The **finite element** formulation for incompressible flow along modifications such as single-point integration, **hourglass** stabilization, and a lumped mass matrix. Recent balancing tensor diffusivity (BTD)and **hourglass** stabilization to damp the spurious zero-energy  
[www.cs.sandia.gov/~machris/papers/cmame-1996.ps.gz](http://www.cs.sandia.gov/~machris/papers/cmame-1996.ps.gz)

[Durability Assessment of an Arch Dam using Inverse.. - Fairbairn Goulart..](#) (Correct)

Arch Dam using Inverse Analysis with Neural Networks and High Performance Computing. Fairbairn Goulart  
[rongo.ce.jhu.edu/emd99/sessions/sessions/papers/fairba2.pdf](http://rongo.ce.jhu.edu/emd99/sessions/sessions/papers/fairba2.pdf)

[Non-Linear Finite Element Procedures for Supported Plates - Roberts, Mills \(1999\)](#) ([Correct](#))

**Non-Linear Finite Element** Procedures for Supported Plates Charles J. rongo.ce.jhu.edu/emd99/sessions/sessions/papers/roberts1.pdf

[Rhale: A 3-D Mmale Code For Unstructured Grids - Peery, Budge, Wong, Trucano](#) ([Correct](#))  
expensive. Hydrodynamics codes based on **finite element**, Lagrangian formulations avoid these are currently five artificial viscosity and four **hourglass** "viscosity" options available to users, plus an "viscosity" options available to users, plus an **hourglass** "stiffening" option. None of the tensor sherpa.sandia.gov/9231home/pdfpapers/asme93.pdf

[A New Locking-Free Brick Element Formulation For.. - Reese Wriggers Reddy](#) ([Correct](#))

H gradv H Dv H G A (v H 0. 5) 3 **Finite Element** Formulation 3.1 **Hourglass** Stabilization In 7700 Rondebosch, South Africa Key Words: **hourglass** stabilization, reduced integration, enhanced to name only a few)But an explanation for the **hourglass** instability effect is still missing. Thus, one sanlab.dlut.edu.cn/Proceeding/Wccm98/html/title/.../pdf/691.pdf

[Some Finite Element Computational Strategies for.. - Catabriga, Dias..](#) ([Correct](#))

Some **Finite Element** Computational Strategies for Large-Scale Flow this cost. The reduced integration can yield **hourglass** modes. To control these spurious modes two elements can yield spurious oscillations, or **hourglass** modes. It is necessary to control such www.coc.ufrj.br/~lucia/papers/sbac98.ps.gz

[Practical Issues of 2-D Parallel Finite Element Analysis - Hribar, Taylor \(1994\)](#) ([Correct](#))

Practical Issues Of 2-D Parallel **Finite Element** Analysis Michelle R. Hribar Valerie E. Our test problems are plastic material with **hourglass** forces. The original WHAMS code supports up to ece.nwu.edu/pub/CELERO/picpp94.ps.gz

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